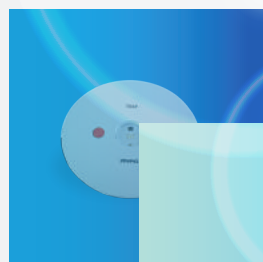


PowerCraft

Emergency Lighting Solutions

PRODUCT CATALOGUE



	
TEST CERTIFICATE	
This Certificate is issued to PowerCraft (Siam) Pte Ltd 111, Kallang Way, #07-01 Kallang Area Industrial Estate Singapore 344347	
FOR	
Product:	Powercrafts Nitrox Cylindrical Cell
Model/Model:	Powercrafts4000C7
Date:	Ratings: 1.2N, 4.5N0
Specification:	Classes 3.3.1, 6.1.2.2, 7.2.1, 7.2.2, 7.6.1, 7.7, 7.4.5.1, 7.4.2.3, 7.7, 7.9.8 0102C-0100, 0.5200-2.1, 2000-01
Test Report:	7191022114-000213001
Date of Test Report: "31" May 2013	
Summary	
The product has been tested and found to have met the above specification.	
	
Your Position (Signature & Electronic Content)	
TCV QED PWS Pte Ltd	
Certificate No.	Date of Original Issue
00001	13/05/2013
Date of Last Revision	Date of Expiry
	12/05/2015
This Certificate is used as a full report and should be used in conjunction with 4. This Certificate represents the property of TCV QED PWS Pte Ltd and should not be released without permission. You own this certificate, it is subject to the terms and conditions of the TCV Certification Scheme. Note: This Certificate is non-transferable to the items not tested.	

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EXIT LUMINAIRE RANGE



EX-LED-M-QF
Page 6



EX-LED-M-RS
Page 7



EXB-LED-M-WP
Page 8



EX-LED-M
Page 9



EXB-LED-M
Page 10



EXB-LED-M-LV
Page 11

EMERGENCY LUMINAIRE RANGE



REL20NM-LED
Page 13 - 15



REL10NM-LED-CU/
REL20NM-LED-CU
Page 16



REL10NM-LED-CY/
REL20NM-LED-CY
Page 17



REL50NM-LED-CY
Page 18



REL50NM-LED
Page 19



REL50NM-LED-
Cylinder
Page 20



ELD1NM & ELD2NM
Page 21



TED10NM
Page 22



TED10NM(WP)
Page 23



EL18NM/1A &
EL28NM/1A
Page 24



EL-LED1
Page 25



EL-LED2-NM
Page 26

CONVERSION KITS



ECP
Page 28



ECS
Page 29



ECL
Page 30



ECL-LED
Page 31

BATTERY PACKS



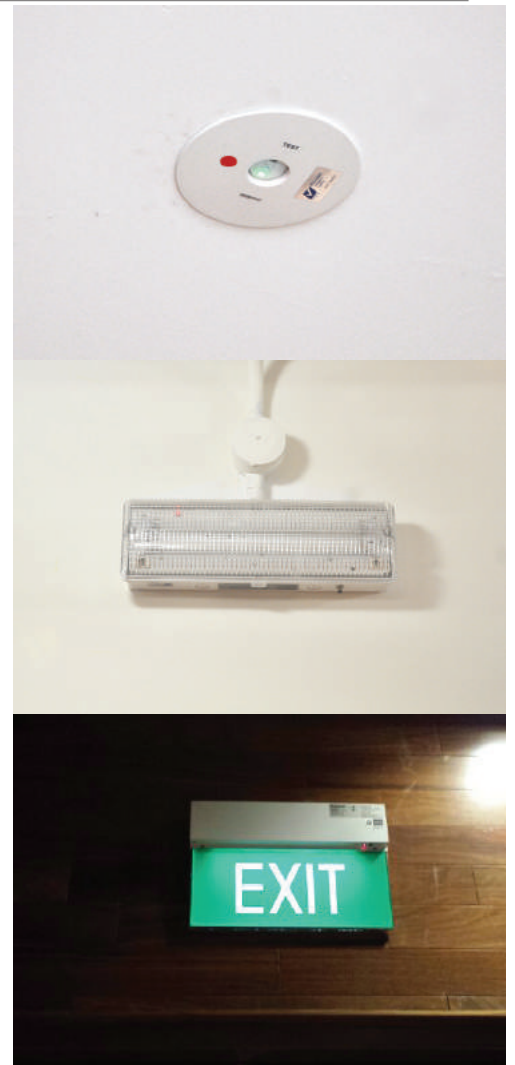
BATTERY RANGE
Page 33

ABOUT US

PowerCraft Electronics Pte Ltd is dedicated to providing high quality, reliable, innovative and technologically advanced products which fully comply to Singapore and European Safety standards for emergency lighting applications.

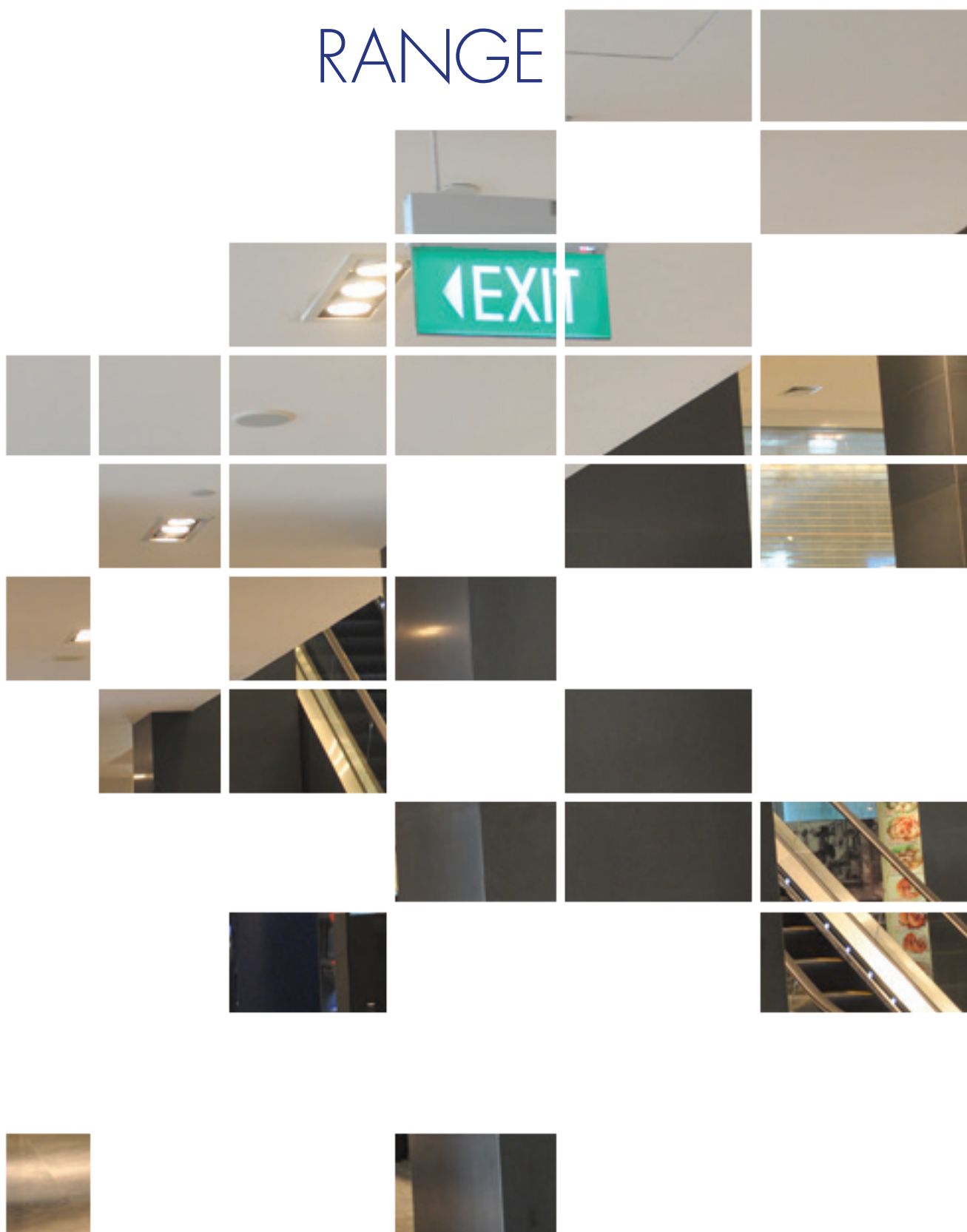
Formed in year 2000, in Singapore, it has since established a strong presence in Singapore and Asia-Pacific region.

Our manufacturing facilities are ISO9000 certified. We are a service oriented company with flexible manufacturing facilities to cater for our customer's individual requirements.



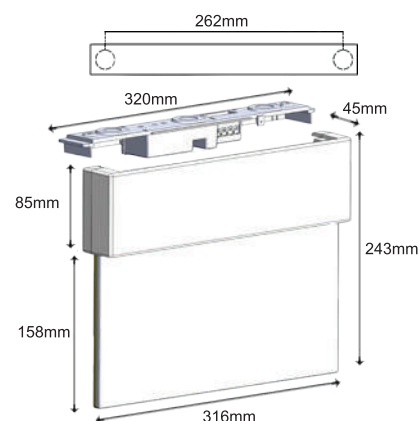
EXIT LUMINAIRE

RANGE

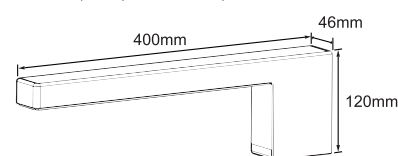


Quick Fit Surface LED

- Designed for fast installation and easy maintenance.
- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds IEC 60598-2-22 and SS 563 brightness requirements.
- Extra low power consumption.
- High Quality, Long Life SMD LED module.
- High efficiency charger and LED converter.
- Series connection of LEDs provides equal biasing of all LEDs ensures maximum LED life span and uniform light distribution.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge indicator and test switch.



Side mount option (wall extension)



TECHNICAL SPECIFICATIONS

Model Number : EX-LED-M-QF

Mode of Operation :	Maintained
Lamp :	1.2W White LED module with burning life-span > 50,000 hours
Rated Duration :	3 Hours
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	3W (Total standby power inclusive of LED converter)
Battery :	High Temperature Nickel Cadmium
Charger :	Regulated variable rate
Charge Monitor :	LED
Test Facility :	Micro switch
Mounting :	Suspended / Surface ceiling / Surface wall
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Period :	< 24 Hours
Diffuser :	Acrylic plate (fire retardant)
Fitting Construction :	Injection moulded with fire retardant (UL94), high impact material
Weight :	Approximately 1.2 Kg
Dimensions :	243mm (H) x 320mm (W) x 45mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)



CLASS II



Type and batch tested with PSB PLS-LISTED LABEL

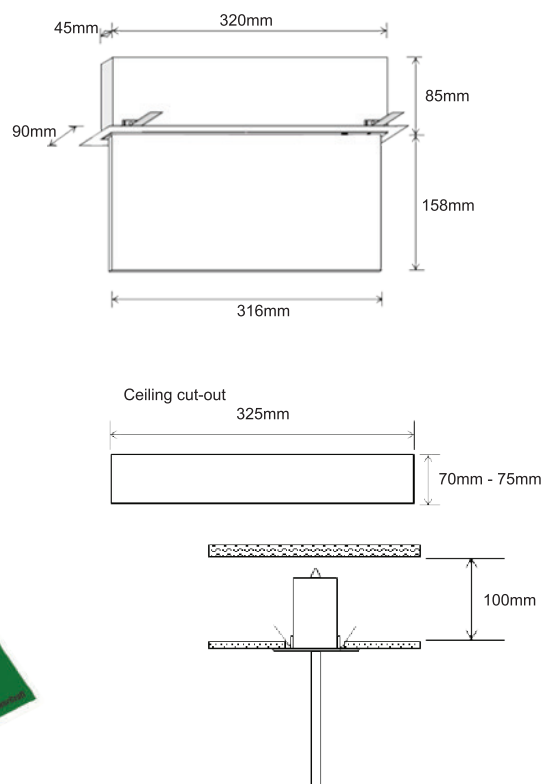


Ordering Guide:

Legend	Single Sided	Double Sided
	EX-LED-M-QF-S-RM	EX-LED-M-QF-D-RM
	EX-LED-M-QF-SR-RM	EX-LED-M-QF-DR-RM
	EX-LED-M-QF-SL-RM	EX-LED-M-QF-DL-RM
	EX-LED-M-QF-S	EX-LED-M-QF-D
	EX-LED-M-QF-SR	EX-LED-M-QF-DR
	EX-LED-M-QF-SL	EX-LED-M-QF-DL

Quick Fit Recess LED

- Designed for fast installation and easy maintenance.
- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds IEC 60598-2-22 and SS 563 brightness requirements.
- Extra low power consumption.
- High Quality, Long Life SMD LED module.
- High efficiency charger and LED converter.
- Series connection of LEDs provides equal biasing of all LEDs ensures maximum LED life span and uniform light distribution.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge indicator and test switch.



TECHNICAL SPECIFICATIONS

Model Number : EX-LED-M-RS

Mode of Operation :	Maintained
Lamp :	1.2W White LED module with burning life-span > 50,000 hours
Rated Duration :	3 Hours
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	3W (Total standby power inclusive of LED converter)
Battery :	High Temperature Nickel Cadmium
Charger :	Regulated variable rate
Charge Monitor :	LED
Test Facility :	Micro switch
Mounting :	Recessed Ceiling
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Period :	< 24 Hours
Diffuser :	Acrylic plate (fire retardant)
Fitting Construction :	Injection moulded with fire retardant (UL94), high impact material
Weight :	Approximately 1.2 Kg
Dimensions :	243mm (H) x 320mm (W) x 45mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)



CLASS II

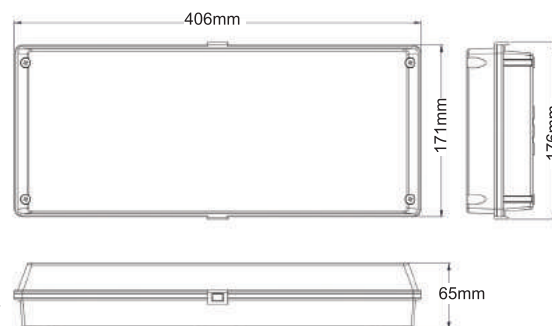


Ordering Guide:

Legend	Single Sided	Double Sided
	EX-LED-M-RS-S-RM	EX-LED-M-RS-D-RM
	EX-LED-M-RS-SR-RM	EX-LED-M-RS-DR-RM
	EX-LED-M-RS-SL-RM	EX-LED-M-RS-DL-RM
	EX-LED-M-RS-S	EX-LED-M-RS-D
	EX-LED-M-RS-SR	EX-LED-M-RS-DR
	EX-LED-M-RS-SL	EX-LED-M-RS-DL

Weatherproof LED

- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds IEC 60598-2-22 and SS 563 brightness requirements.
- Extra low power consumption.
- High Quality, Long Life SMD LED module.
- Series connection of LEDs provides equal biasing of all LEDs, ensures maximum LED life span and uniform light distribution.
- High efficiency charger and LED converter.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge indicator and test switch.



TECHNICAL SPECIFICATIONS

Model Number : EXB-LED-M-WP

Mode of Operation :	Maintained
Lamp :	1.2W White SMD LED module with burning life-span > 50,000 hours
Rated Duration :	3 Hours
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	3W (Total standby power inclusive of LED converter)
Battery :	High Temperature Nickel Cadmium
Charger :	Regulated variable rate
Charge Monitor :	LED
Test Facility :	Micro switch
Mounting :	Surface wall / Semi-recessed wall
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Period :	< 24 Hours
Diffuser :	Injection moulded with fire retardant (UL94), high impact material
Fitting Construction :	Injection moulded with fire retardant (UL94), high impact material
Weight :	Approximately 1.2 Kg
Dimensions :	171mm (H) x 406mm (W) x 65mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)

IP65
CLASS II



Ordering Guide:

Legend

Single Sided



EXB-LED-M-WP-S-RM



EXB-LED-M-WP-SR-RM



EXB-LED-M-WP-SL-RM



EXB-LED-M-WP-S



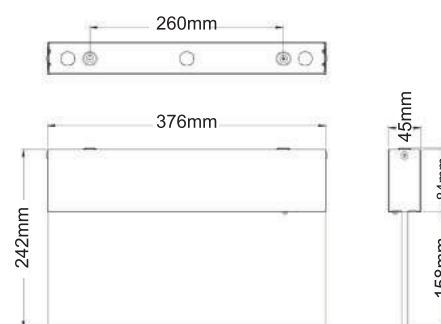
EXB-LED-M-WP-SR



EXB-LED-M-WP-SL

Slimline LED

- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds IEC 60598-2-22 and SS 563 brightness requirements.
- Extra low power consumption.
- High Quality, Long Life SMD LED module.
- High efficiency charger and LED converter.
- Series connection of LEDs provides equal biasing of all LEDs ensures maximum LED life span and uniform light distribution.
- Add-on plate for recess mounting
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge indicator and test switch.



Model Number : EX-LED-M

TECHNICAL SPECIFICATIONS

Mode of Operation :	Maintained
Lamp :	1.2W White LED module with burning life-span > 50,000 hours
Rated Duration :	3 Hours
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	3W (Total standby power inclusive of LED converter)
Battery :	High Temperature Nickel Cadmium
Charger :	Regulated variable rate
Charge Monitor :	LED
Test Facility :	Micro switch
Mounting :	Surface mount (Recessed mount option available)
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Period :	< 24 Hours
Diffuser :	Acrylic plate (Fire retardant)
Fitting Construction :	Electro galvanized steel. Epoxy powder coating for casing and gear tray
Weight :	Approximately 2.1 Kg
Dimensions :	242mm (H) x 376mm (W) x 45mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)



CLASS I

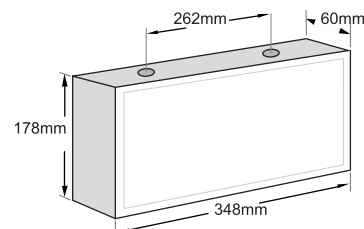


Ordering Guide:

Legend	Single Sided	Double Sided
	EX-LED-M-S-RM	EX-LED-M-D-RM
	EX-LED-M-SR-RM	EX-LED-M-DR-RM
	EX-LED-M-SL-RM	EX-LED-M-DL-RM
	EX-LED-M-S	EX-LED-M-D
	EX-LED-M-SR	EX-LED-M-DR
	EX-LED-M-SL	EX-LED-M-DL

Surface Box LED

- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds IEC 60598-2-22 and SS 563 brightness requirements.
- Extra low power consumption.
- High Quality, Long Life SMD LED module.
- High efficiency charger and LED converter.
- Series connection of LEDs provides equal biasing of all LEDs ensures maximum LED life span and uniform light distribution.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge indicator and test switch.



Model Number : EXB-LED-M

TECHNICAL SPECIFICATIONS

Mode of Operation :	Maintained
Lamp :	1.2W White LED module with burning life-span > 50,000 hours
Rated Duration :	3 Hours
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	3W (Total standby power inclusive of LED converter)
Battery :	High Temperature Nickel Cadmium
Charger :	Regulated variable rate
Charge Monitor :	LED
Test Facility :	Micro switch
Mounting :	Suspended / Surface ceiling / Surface wall
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Period :	< 24 Hours
Diffuser :	Acrylic plate (Fire retardant)
Fitting Construction :	Electro galvanized steel. Epoxy powder coating for casing and gear tray
Weight :	Approximately 1.5 Kg
Dimensions :	Surface mount: 178mm (H) x 348mm (W) x 60mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)



CLASS I

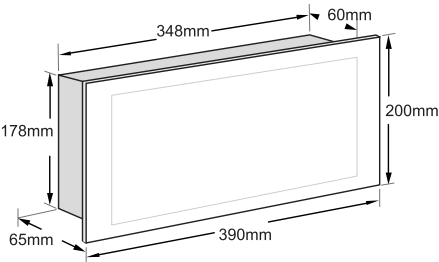


Ordering Guide:

Legend	Surface Mount
	EXB-LED-M-S-RM
	EXB-LED-M-SR-RM
	EXB-LED-M-SL-RM
	EXB-LED-M-S
	EXB-LED-M-SR
	EXB-LED-M-SL

Recess Box LED

- Ultra bright white LEDs meeting ISO safety colour requirements.
- Exceeds IEC 60598-2-22 and SS 563 brightness requirements.
- Extra low power consumption.
- High Quality, Long Life SMD LED module.
- High efficiency charger and LED converter.
- Series connection of LEDs provides equal biasing of all LEDs ensures maximum LED life span and uniform light distribution.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge indicator and test switch.



TECHNICAL SPECIFICATIONS

Model Number : EXB-LED-M

Mode of Operation :	Maintained
Lamp :	1.2W White LED module with burning life-span > 50,000 hours
Rated Duration :	3 Hours
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	3W (Total standby power inclusive of LED converter)
Battery :	High Temperature Nickel Cadmium
Charger :	Regulated variable rate
Charge Monitor :	LED
Test Facility :	Micro switch
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Period :	< 24 Hours
Diffuser :	Acrylic plate (Fire retardant)
Fitting Construction :	Electro galvanized steel. Epoxy powder coating for casing and gear tray
Weight :	Approximately 1.5 Kg
Dimensions :	Recess mount: 200mm (H) x 390mm (W) x 65mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)



CLASS I



Ordering Guide:

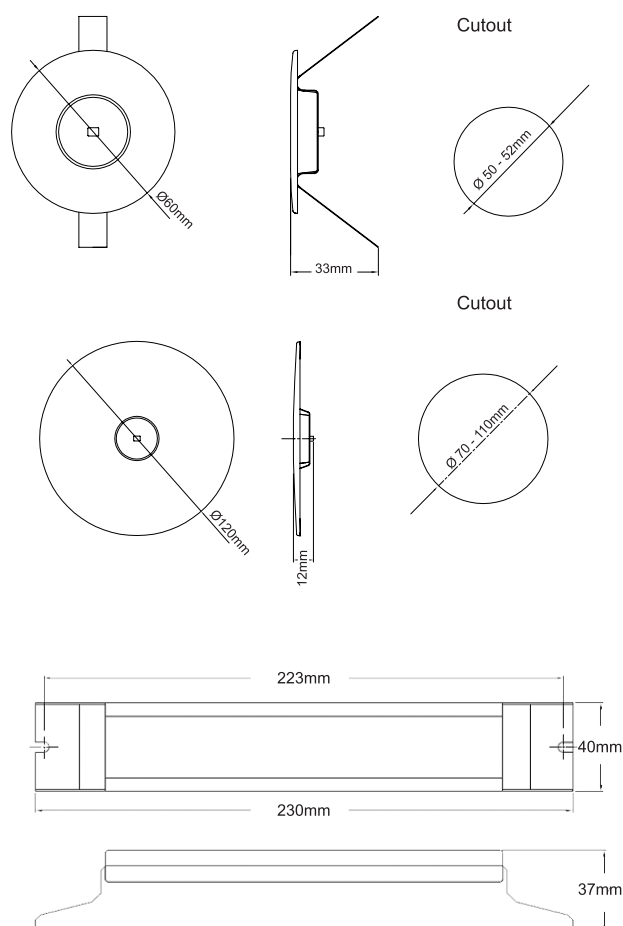
Legend	Recess Mount
	EXB-LED-M-LV-S-RM
	EXB-LED-M-LV-SR-RM
	EXB-LED-M-LV-SL-RM
	EXB-LED-M-LV-S
	EXB-LED-M-LV-SR
	EXB-LED-M-LV-SL

EMERGENCY LUMINAIRE RANGE



Recess LED

- Very wide spacing, double of traditional 10W halogen.
- Save up to 2/3 of the number of fittings used.
- Energy savings, extra low standby power consumption.
- Slim casing, fit through 50mm hole.



TECHNICAL SPECIFICATIONS

Model Number :

REL20NM-LED

Mode of Operation :	Non-Maintained
Lamp :	3W White LED
Rated Duration :	3 Hours
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	< 1.5W
Battery :	High Temperature Nickel Cadmium
Charger :	Regulated variable rate
Charge Monitor :	LED
Test Facility :	Micro switch
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Duration :	< 24 Hours
Fitting Construction :	Aluminum epoxy powder coated reflector Galvanised zinc coated charger housing
Weight :	Approximately 0.3 kg
Standards :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)



CLASS I

Type and batch tested with
PSB PLS-LISTED LABEL

Ordering Guide:

Ordering Code

REL20NM-LED-60MM

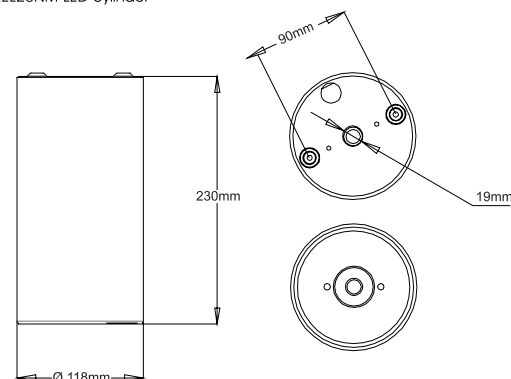
REL20NM-LED-120MM

Surface LED

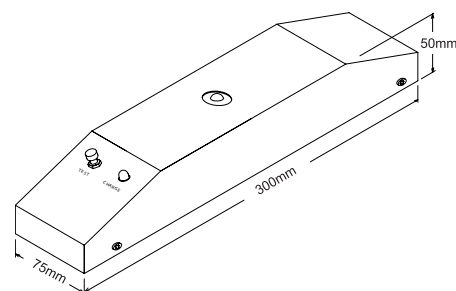
- Very wide spacing, double of traditional 10W halogen.
- Save up to 2/3 of the number of fittings used.
- Energy savings, extra low standby power consumption.



REL20NM-LED cylinder



REL20NM-LED gearbox



TECHNICAL SPECIFICATIONS

Model Number :

REL20NM-LED

Mode of Operation :	Non-Maintained
Lamp :	3W White LED
Rated Duration :	3 Hours
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	< 1.5W
Battery :	High Temperature Nickel Cadmium
Charger :	Regulated variable rate
Charge Monitor :	LED
Test Facility :	Momentary test switch
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Period :	< 24 Hours
Fitting Construction :	Epoxy powder coated cold-rolled steel
Weight :	Approximately 1.2 kg
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)



CLASS I



Ordering Guide:

Ordering Code

REL20NM-LED-cylinder

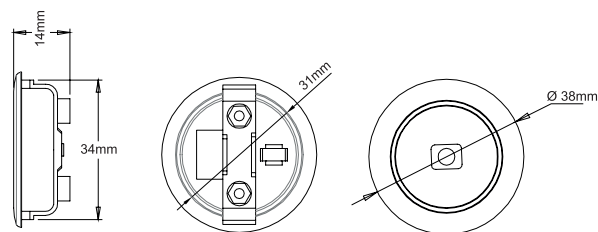
REL20NM-LED-gearbox

Self-Contained / Sustained LED

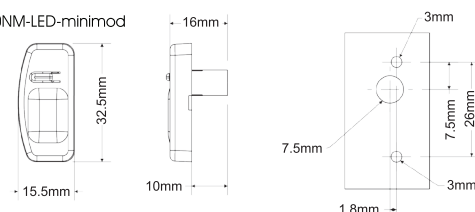
- Prevents damage to fluorescent lamp.
- Very wide spacing.
- Energy savings, extra low standby power consumption.



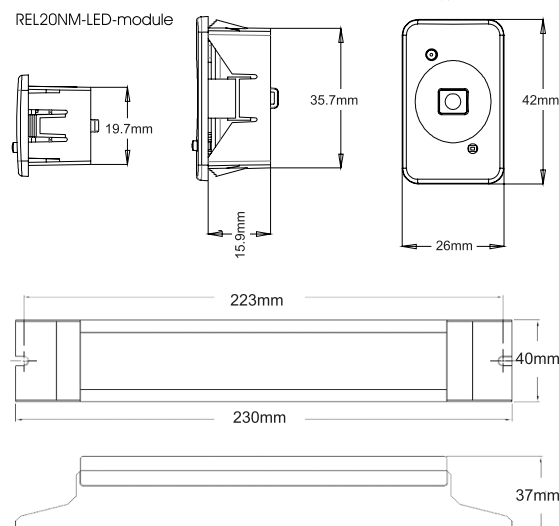
REL20NM-LED-38mm



REL20NM-LED-minimod



REL20NM-LED-module



TECHNICAL SPECIFICATIONS

Model Number :

REL20NM-LED

Mode of Operation :	Non-Maintained
Lamp :	3W White LED
Rated Duration :	3 Hours
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	< 1.5W
Battery :	High Temperature Nickel Cadmium
Charger :	Regulated variable rate
Charge Monitor :	LED
Test Facility :	Micro switch
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Period :	< 24 Hours
Fitting Construction :	Galvanised zinc coated charger housing
Weight :	Approximately 0.3 kg
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)



CLASS I



Ordering Guide:

Ordering Code

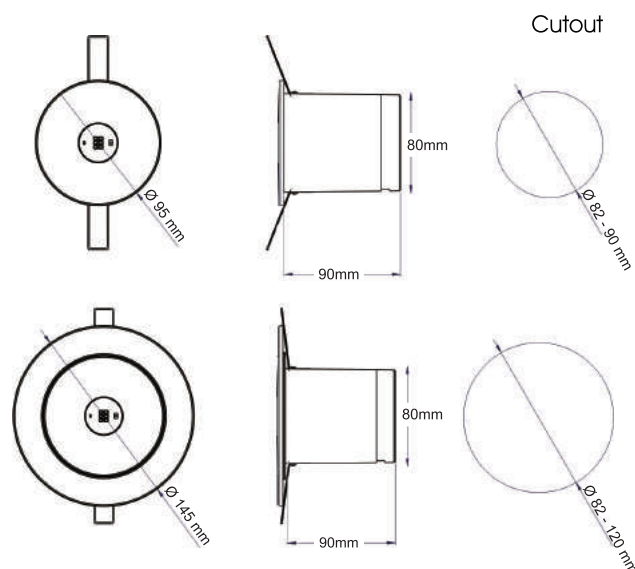
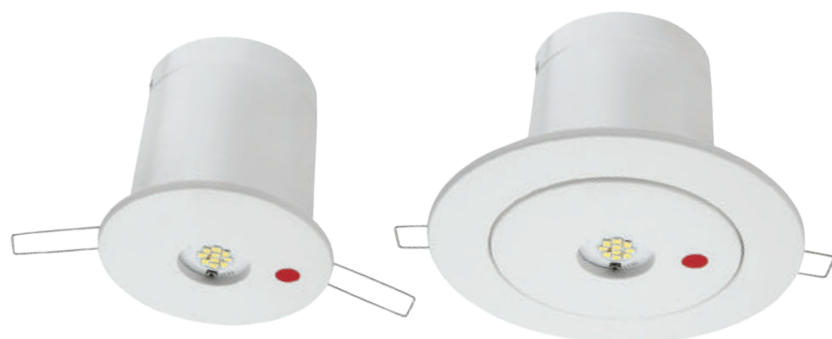
REL20NM-LED-38MM

REL20NM-LED-minimod

REL20NM-LED-module

Recess LED

- Very wide spacing.
- Save up to 2/3 of the number of fittings used.
- Energy savings, extra low standby power consumption.



TECHNICAL SPECIFICATIONS

Model Number :	REL20NM-LED-CU	REL10NM-LED-CU
Mode of Operation :	Non-Maintained	
Lamp :	3W White LED	
Rated Duration :	2 Hours	3 Hours
Mains Supply :	220-240 Volts	
Mains Frequency :	50-60Hz	
Power Consumption :	< 1.5W	
Battery :	High Temperature Nickel Cadmium (NiCd)	
Charger :	Regulated variable rate	
Charge Monitor :	LED	
Test Facility :	Micro switch	
Safety Features :	Low battery voltage cut off to prevent over discharge	
Recharge Period :	< 24 Hours	
Fitting Construction :	Injection moulded with fire retardant (UL94), high impact material	
Weight :	Approximately 0.3 kg	Approximately 0.4 kg
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563 IEC 61347-2-7, IEC 61347-2-13	
Approvals :	PSB Type test, PSB PLS (Product Listing Scheme)	



CLASS II



PSB Singapore



Type and batch tested with
PSB PLS-LISTED LABEL

Ordering Guide:

Ordering Code

REL10NM-LED-CU-95mm

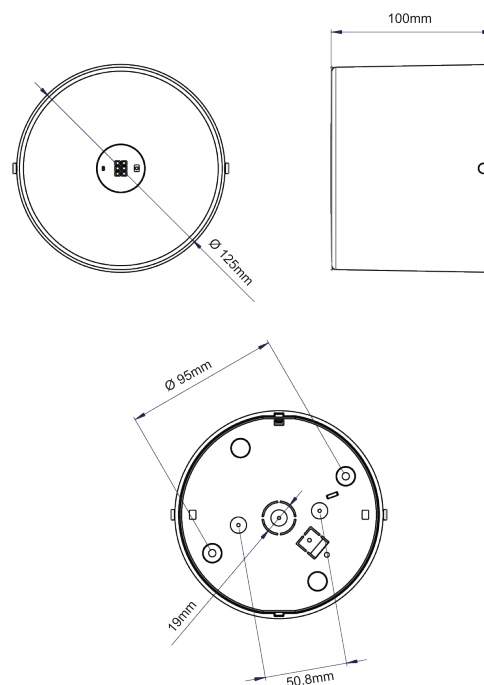
REL10NM-LED-CU-145mm

REL20NM-LED-CU-95mm

REL20NM-LED-CU-145mm

Surface LED

- Very wide spacing
- Save up to 2/3 of the number of fittings used.
- Energy savings, extra low standby power consumption.



Model Number : REL20NM-LED-CY REL10NM-LED-CY

TECHNICAL SPECIFICATIONS

Mode of Operation :	Non-Maintained	
Lamp :	3W White LED	
Rated Duration :	2 Hours	3 Hours
Mains Supply :	220-240 Volts	
Mains Frequency :	50-60Hz	
Power Consumption :	< 1.5W	
Battery :	High Temperature Nickel Cadmium (NiCd)	
Charger :	Regulated variable rate	
Charge Monitor :	LED	
Test Facility :	Micro switch	
Safety Features :	Low battery voltage cut off to prevent over discharge	
Recharge Period :	< 24 Hours	
Fitting Construction :	Injection moulded with fire retardant (UL94), high impact material	
Weight :	Approximately 0.3 kg	Approximately 0.4 kg
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563 IEC 61347-2-7, IEC 61347-2-13	
Approvals :	PSB Type test, PSB PLS (Product Listing Scheme)	



CLASS II



Ordering Guide:

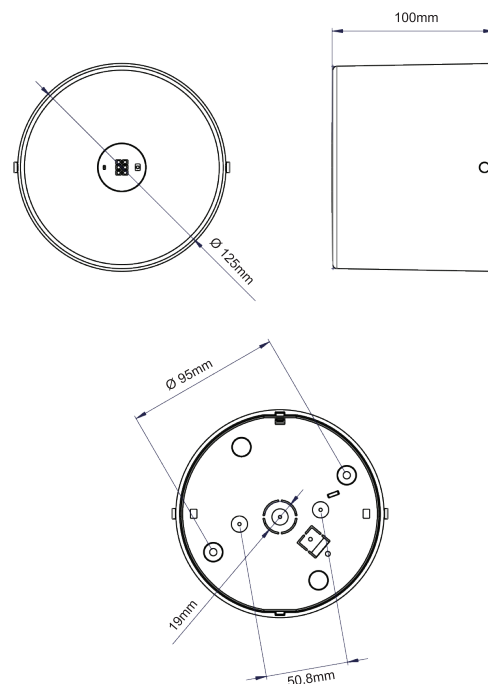
Ordering Code

REL10NM-LED-CY

REL20NM-LED-CY

Surface LED

- Very wide spacing
- Save up to 2/3 of the number of fittings used.
- Energy savings, extra low standby power consumption.



TECHNICAL SPECIFICATIONS

Model Number :

REL50NM-LED-CY

Mode of Operation :	Non-Maintained
Lamp :	10W White LED
Rated Duration :	2 Hours
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	< 3.0W
Battery :	High Temperature Nickel Cadmium
Charger :	Regulated variable rate
Charge Monitor :	LED
Test Facility :	Micro switch
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Period :	< 24 Hours
Fitting Construction :	Injection moulded with fire retardant (UL94), high impact material
Weight :	Approximately 0.7 kg
Standards / Compliance :	IEC 61347-2-7, IEC 61347-2-13, SS 563 IEC 60598-2-22, SS 263 Part 2
Approvals :	PSB Type test, PSB PLS (Product Listing Scheme)



CLASS II



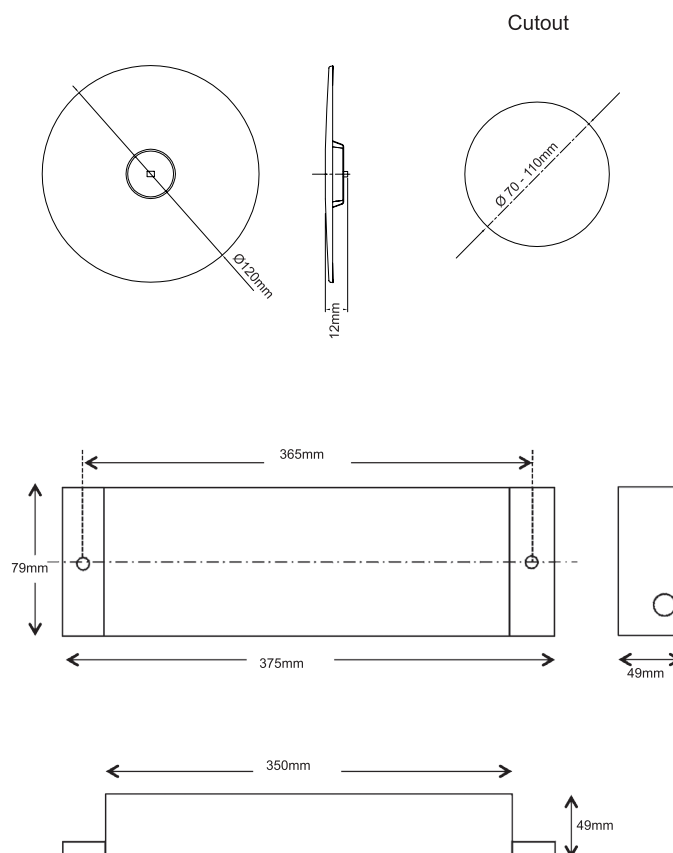
Ordering Guide:

Ordering Code

REL50NM-LED-CY

Recess LED

- Very wide spacing.
- Energy savings, extra low standby power consumption.
- Suitable for high ceiling recess mounting.



TECHNICAL SPECIFICATIONS

Model Number :	REL50NM-LED	REL50M-LED
Mode of Operation :	Non-Maintained	Maintained
Lamp :	10W White LED	
Rated Duration :	2 Hours	
Mains Supply :	220-240 Volts	
Mains Frequency :	50-60Hz	
Power Consumption :	2.5W	12.5W
Battery :	High Temperature Nickel Cadmium	
Charger :	Regulated variable rate	
Charge Monitor :	LED	
Test Facility :	Micro switch	
Safety Features :	Low battery voltage cut off to prevent over discharge	
Recharge Period :	< 24 Hours	
Fitting Construction :	Aluminum epoxy powder coated reflector Steel (charger housing)	
Weight :	Approximately 1.3 kg	
Standards / Compliance :	IEC 61347-2-13, IEC 62384 ,SS 563	
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)	


CLASS I


PSB Singapore


 Type and batch tested with
PSB PLS-LISTED LABEL

Ordering Guide:

Ordering Code

Non-Maintained

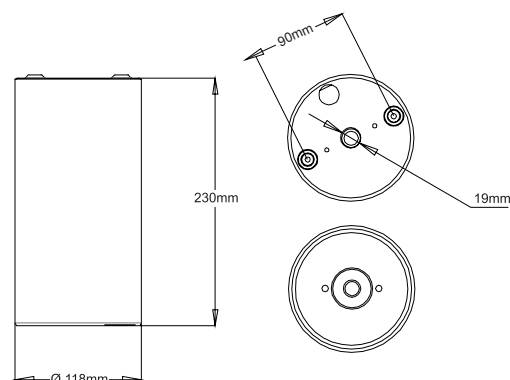
Maintained

REL50NM-LED-120MM

REL50M-LED-120MM

Surface LED

- Very wide spacing.
- Energy savings, extra low standby power consumption.
- Suitable for high ceiling surface mounting.



TECHNICAL SPECIFICATIONS

Model Number :	REL50NM-LED	REL50M-LED
Mode of Operation :	Non-Maintained	Maintained
Lamp :	10W White LED	
Rated Duration :	2 Hours	
Mains Supply :	220-240 Volts	
Mains Frequency :	50-60Hz	
Power Consumption :	2.5W	12.5W
Battery :	High Temperature Nickel Cadmium	
Charger :	Regulated variable rate	
Charge Monitor :	LED	
Test Facility :	Micro switch	
Safety Features :	Low battery voltage cut off to prevent over discharge	
Recharge Period :	< 24 Hours	
Fitting Construction :	Aluminum epoxy powder coated reflector Steel (charger housing)	
Weight :	Approximately 1.3 kg	
Standards / Compliance :	IEC 61347-2-13, IEC 62384 ,SS 563	
Approvals :	TÜV SÜD PSB, PSB PLS (Product Listing Scheme)	



CLASS I



Ordering Guide:

Ordering Code

Non-Maintained

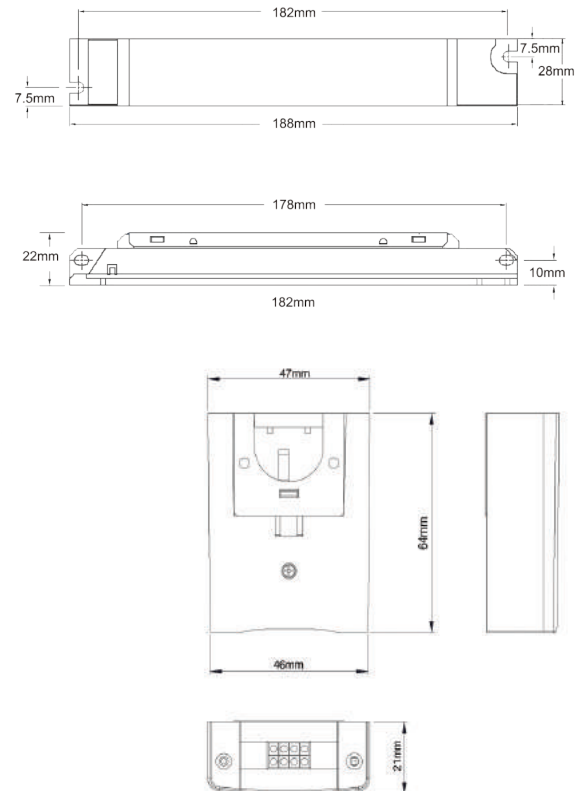
Maintained

REL50NM-LED-Cylinder

REL50M-LED-Cylinder

Slide On LED

- Prevents damage to fluorescent lamp.
- Very wide spacing.
- Energy savings, extra low standby power consumption.



CLASS I

TECHNICAL SPECIFICATIONS

Model Number :	ELD1NM	ELD2NM
Mode of Operation :	Non-Maintained	
Lamp :	2.4W LED Module	3 x 3W LED Modules
Rated Duration :	2 Hours	
Mains Supply :	220-240 Volts	
Mains Frequency :	50-60Hz	
Power Consumption :	< 1.5W	
Battery :	High Temperature Nickel Cadmium (NiCd)	
Charge Monitor :	LED	
Test Facility :	Micro switch	
Safety Features :	Low battery voltage cut off to prevent over discharge	
Recharge Period :	< 24 Hours	
Fitting Construction :	Injection moulded with fire retardant, high impact material	
Weight :	Approximately 0.3 kg	
Standards :	IEC 60598-2-22	

Ordering Guide:

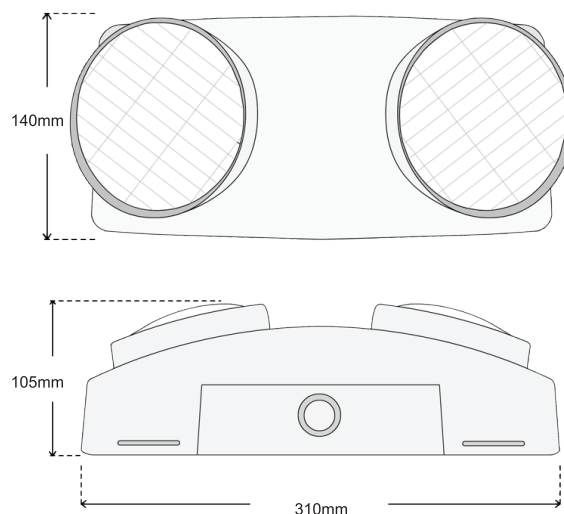
Ordering Code

ELD1NM

ELD2NM

Twin-spot LED

- Fire Retardant (UL94) housing and UV stabilised Diffuser.
- Snap in design, suitable for indoor and damp area applications.
- Low heat generation, ensures longer and reliable service life.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge LED indicator and test switch.



With Weatherproof Enclosure Housing

TECHNICAL SPECIFICATIONS

Model Number : TED10NM

Mode of Operation :	Non-maintained
Lamp :	2 x 3W Power LED module
Rated Duration :	2 Hours (3 Hours on request)
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	< 1.5W
Battery :	High Temperature Nickel Cadmium
Charger :	Regulated variable rate
Charge Monitor :	LED
Test Facility :	Micro switch
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Period :	< 24 Hours
Fitting Construction :	Moulded Fire retardant (UL94) housing and diffuser.
Weight :	Approximately 1.5 Kg
Dimensions :	310mm (W) x 140mm (H) x 105mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	PSB Type test, PSB PLS (Product Listing Scheme)

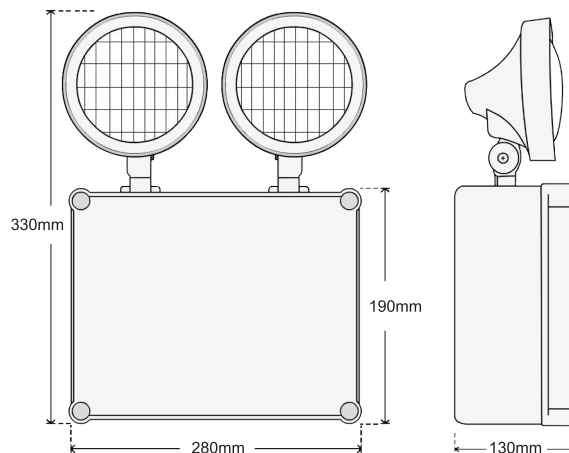


CLASS II



Weatherproof Twin Spot LED

- Weatherproof design suitable for outdoor applications.
- Low heat generation, ensures longer and reliable service life.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge LED indicator and test button.



TECHNICAL SPECIFICATIONS

Model Number : **TED10NM(WP)**

Mode of Operation :	Non maintained
Lamp :	2 x 3W Power LED module
Rated Duration :	2 Hours
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	< 1.5W
Battery :	High Temperature Nickel Cadmium
Charger :	Regulated variable rate
Charge Monitor :	LED
Test Facility :	Momentary test switch
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Period :	< 24 Hours
Fitting Construction :	Moulded Fire retardant (UL94) housing and diffuser.
Weight :	Approximately 2.5 Kg
Dimensions :	330mm (W) x 280mm (H) x 130mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	PSB Type test, PSB PLS (Product Listing Scheme)



IP65
CLASS II



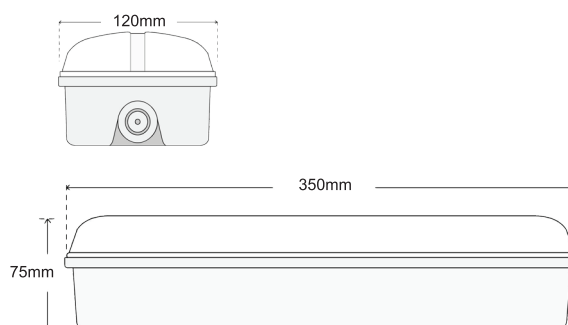
PSB Singapore



Type and batch tested with
PSB PLS-LISTED LABEL

T5 Fluorescent Bulkhead

- Weatherproof design suitable for indoor and outdoor applications.
- Fire Retardant (UL94) housing and UV stabilised Diffuser.
- Low heat generation, ensures longer and reliable service life.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge LED indicator and test switch.



TECHNICAL SPECIFICATIONS

Model Number : EL18NM/1A EL28NM/1A

Mode of Operation :	Non maintained
Lamp :	1 x 8W T5 Fluorescent Lamp 2 x 8W T5 Fluorescent Lamp
Rated Duration :	2 Hours (3 Hours on request)
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	< 4.0W
Battery :	High Temperature Nickel Cadmium
Charger :	Variable rate, Short circuit protected
Charge Monitor :	LED
Degree of protection (Against dust and moisture)	IP54 (IP65 with Test Switch mounted internally)
Test Facility :	Momentary test switch
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Period :	< 24 Hours
Fitting Construction :	Injection moulded with fire retardant (UL94), high impact material
Weight :	Approximately 1.0 Kg
Dimensions :	350mm (W) x 120mm (H) x 75mm (D)
Standards / Compliance :	IEC 60598-2-22, SS 263 Part 2, SS 563
Approvals :	PSB Type test, PSB PLS (Product Listing Scheme)



IP65
CLASS I

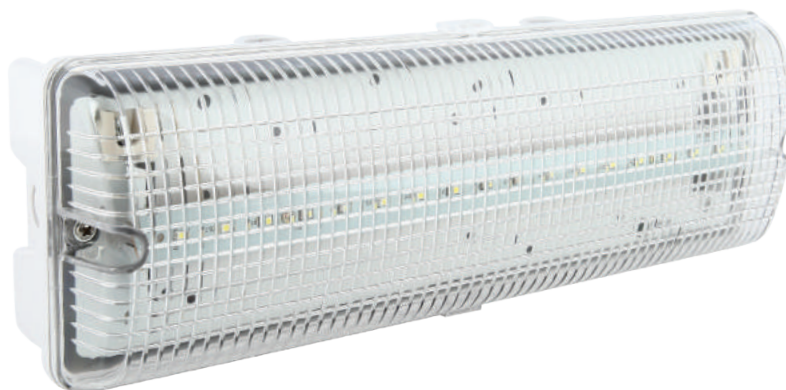
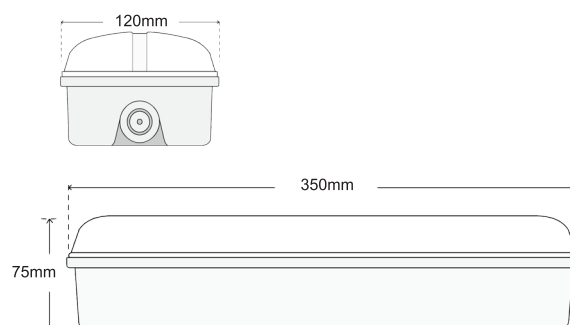


PSB Singapore



LED Bulkhead

- Weatherproof design suitable for indoor and outdoor applications.
- Fire Retardant (UL94) housing and UV stabilised Diffuser.
- Low heat generation, ensures longer and reliable service life.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge LED indicator and test switch.



TECHNICAL SPECIFICATIONS

Model Number :
EL-LED1

Mode of Operation :	Maintained / Non maintained
Lamp :	LED module (17 x 0.1W)
Rated Duration :	2 Hours (3 Hours on request)
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	< 4.0W
Battery :	High Temperature Nickel Cadmium
Charger :	Regulated variable rate, Short circuit protected
Charge Monitor :	LED
Degree of protection (Against dust and moisture)	IP54 (IP65 with Test Switch mounted internally)
Test Facility :	Momentary test switch
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Period :	< 24 Hours
Fitting Construction :	Injection moulded with fire retardant (UL94), high impact material
Weight :	Approximately 1.0 Kg
Dimensions :	350mm (W) x 120mm (H) x 75mm (D)
Approval Standard :	IEC 61347-2-7 (SS 490-2-7), IEC 61347-2-13, IEC 62384, SS 563


 IP65
CLASS II

Ordering Guide:

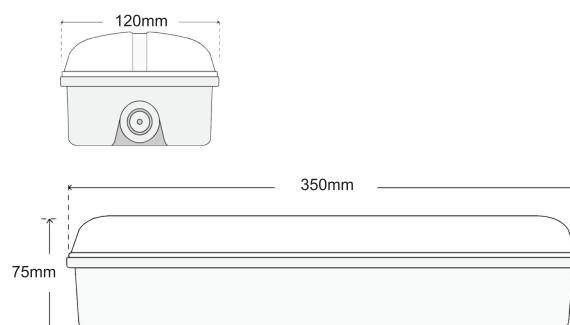
Ordering Code

EL-LED1-NM

EL-LED1-M

LED Bulkhead

- Weatherproof design suitable for indoor and outdoor applications.
- Fire Retardant (UL94) housing and UV stabilised Diffuser.
- Low heat generation, ensures longer and reliable service life.
- Low battery voltage cut-off with latch function, to eliminate battery over discharge.
- Charge LED indicator and test switch.



TECHNICAL SPECIFICATIONS

Model Number :

EL-LED2-NM

Mode of Operation :	Non maintained
Lamp :	2 x 3W power LED module
Rated Duration :	2 Hours (3 Hours on request)
Mains Supply :	220-240 Volts
Mains Frequency :	50-60Hz
Power Consumption :	< 1.5W
Battery :	High Temperature Nickel Cadmium
Charger :	Regulated variable rate, Short circuit protected
Charge Monitor :	LED
Degree of protection (Against dust and moisture)	IP54 (IP65 with Test Switch mounted internally)
Test Facility :	Momentary test switch
Safety Features :	Low battery voltage cut off to prevent over discharge
Recharge Period :	< 24 Hours
Fitting Construction :	Injection moulded with fire retardant (UL94), high impact material
Weight :	Approximately 1.0 Kg
Dimensions :	350mm (W) x 120mm (H) x 75mm (D)
Standards / Compliance :	IEC 60598-2-22 ,SS 263 Part 2, SS 563
Approvals :	PSB Type test, PSB PLS (Product Listing Scheme)



IP65
CLASS II



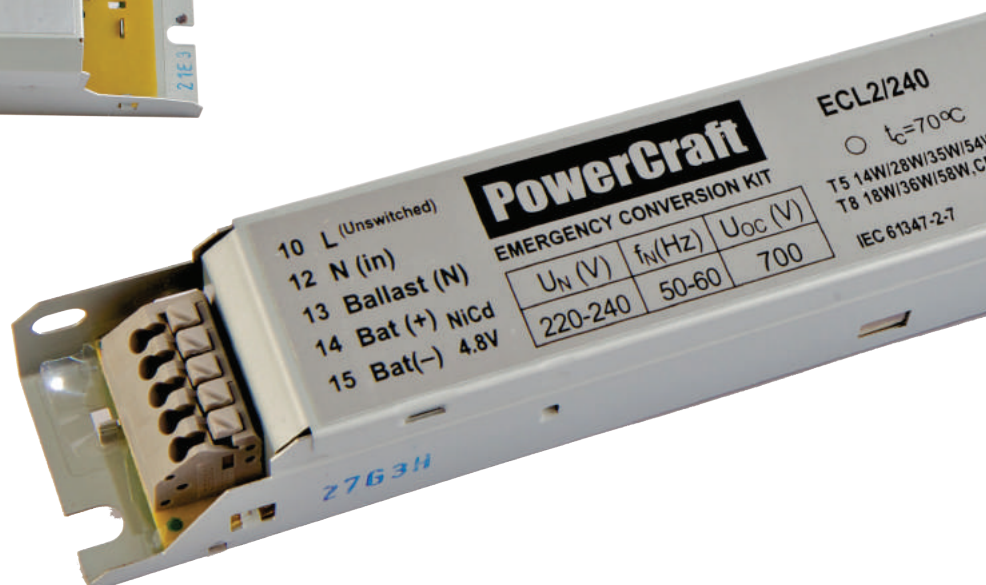
PSB Singapore



Type and batch tested with
PSB PLS-LISTED LABEL

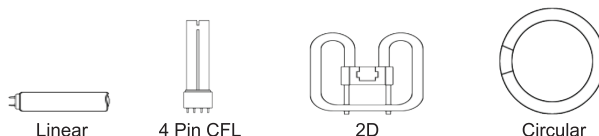


CONVERSION KITS



ECP - Professional Range

- Filament Conditioning prevents premature filament damage (Black ends).
- Four pole relay configuration at lamp for total isolation.
- Suitable for T5, T8, CFL and 2D fluorescent lamps.
- Short-circuit protection at battery terminals.
- IC controlled dual rate charging.



TECHNICAL SPECIFICATIONS

Mode of Operation :	Maintained / Non-maintained
Lamp Type :	T5, T8 Fluorescent, 4 Pin CFL and 2D Lamps
Rated Duration :	1 Hour / 2 Hours / 3 Hours
Supply Voltage :	220 - 240V, 50 - 60Hz
Supply Current :	20mA - 35mA
Power Consumption :	< 4.5W
Trickle Charge :	125mA
Battery Charger :	Dual Rate
Battery Charging Time :	< 24 Hours
Battery Protection :	Low Battery Voltage Cut-off (Prevents Battery Over Discharge)
Battery Type :	High Temp Nickel-Cadmium
Charge Monitor :	LED
Test Facility :	Momentary test switch
Casing Construction :	Electro-galvanised steel
Max. Casing Temp, Tc :	70°C
Max. Ambient Temp, Ta :	50°C
Approvals Standards :	IEC 61347-2-7 (SS 490-2-7), SS 563



CLASS I



PSB Singapore

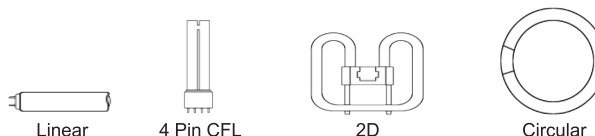


Ordering Guide:

Ordering Code	Battery Type	Battery configuration
ECP36 / 240 / 4.8 / 2.5 - A	NiCd 4.8V 2.5AH	Cane
ECP36 / 240 / 4.8 / 2.5 - S	NiCd 4.8V 2.5AH	Side by side
ECP36 / 240 / 4.8 / 4.5 - A	NiCd 4.8V 4.5AH	Cane
ECP36 / 240 / 4.8 / 4.5 - A+A	NiCd 4.8V 4.5AH	Cane + cane

ECS - Standard Range

- Suitable for T5, T8, CFL and 2D fluorescent lamps.
- Low standby power consumption of < 4.5W.
- Short-circuit protection at battery terminals.
- IC controlled dual rate charging.



TECHNICAL SPECIFICATIONS

Mode of Operation :	Maintained / Non-maintained
Lamp Type :	T5, T8, 4 Pin CFL and 2D Fluorescent Lamps
Rated Duration :	1 Hour / 2 Hours / 3 Hours
Supply Voltage :	220 - 240V, 50 - 60Hz
Supply Current :	20mA - 35mA
Power Consumption :	< 4.5W
Trickle Charge :	80mA
Battery Charger :	Dual Rate
Battery Charging Time :	< 24 Hours
Battery Protection :	Low Battery Voltage Cut-off (Prevents Battery Over Discharge)
Battery Type :	High Temp Nickel-Cadmium
Charge Monitor :	LED
Test Facility :	Momentary test switch
Casing Construction :	Electro-galvanised steel
Max. Casing Temp, Tc :	70°C
Max. Ambient Temp, Ta :	50°C
Approvals Standards :	IEC 61347-2-7 (SS 490-2-7), SS 563

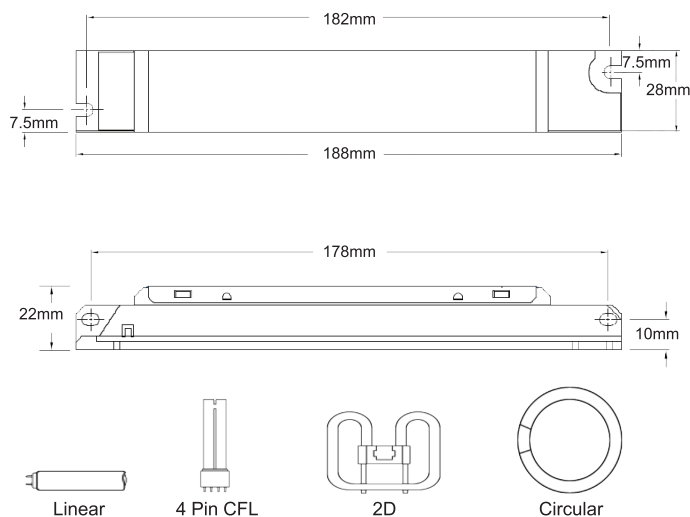

CLASS I


Ordering Guide:

Ordering Code	Battery Type	Battery configuration
ECS36 / 240 / 4.8 / 1.6 - A	NiCd 4.8V 1.6AH	Cane
ECS36 / 240 / 4.8 / 1.6 - S	NiCd 4.8V 1.6AH	Side by side
ECS36 / 240 / 4.8 / 2.5 - A	NiCd 4.8V 2.5AH	Cane
ECS36 / 240 / 4.8 / 2.5 - S	NiCd 4.8V 2.5AH	Side by side
ECS36 / 240 / 4.8 / 4.5 - A	NiCd 4.8V 4.5AH	Cane
ECS36 / 240 / 4.8 / 4.5 - A+A	NiCd 4.8V 4.5AH	Cane + cane

ECL - Low Profile Range

- Suitable for T5, T8, CFL and 2D fluorescent lamps.
- Extra low standby power consumption.
- Low-profile casing (22mm x 28mm cross-section).
- Five-pole relay configuration.
- Ballast control output ensures compatability with most high frequency ballast.
- Short-circuit protection.



CLASS I



Type and batch tested with
PSB PLS-LISTED LABEL



TECHNICAL SPECIFICATIONS

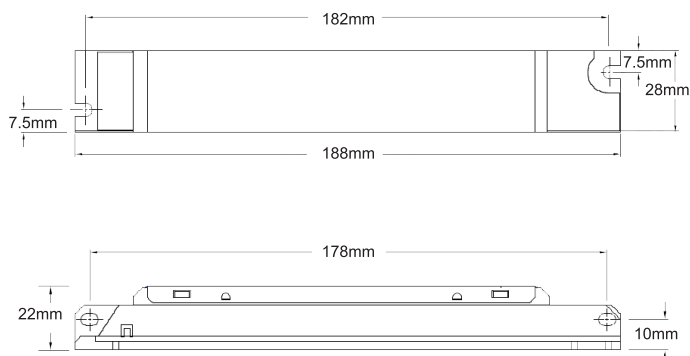
Mode of Operation :	Maintained / Non-maintained
Lamp Type :	T5, T8, 4 Pin CFL and 2D Fluorescent Lamps
Rated Duration :	1 Hour / 2 Hours / 3 Hours
Supply Voltage :	220 - 240V, 50 - 60Hz (110 - 240V on request)
Supply Current :	20mA
Power Consumption :	< 2.0W
Trickle Charge :	80mA / 125mA / 225mA
Battery Charger :	Regulated variable rate
Battery Charging Time :	< 24 Hours
Battery Protection :	Low Battery Voltage Cut-off (Prevents Battery Over Discharge)
Battery Type :	High Temp Nickel-Cadmium (NiCd) / Nickel-Metal Hydride (NiMH)
Charge Monitor :	LED
Test Facility :	Momentary test switch
Casing Construction :	Electro-galvanised steel
Max. Casing Temp, Tc :	70°C
Max. Ambient Temp, Ta :	50°C
Approvals Standards :	IEC 61347-2-7 (SS 490-2-7), SS 563

Ordering Guide:

Ordering Code	Battery Type	Battery configuration
ECL1 / 240 / 3.6 / 2.5 - A	NiCd 3.6V 2.5AH	Cane
ECL1 / 240 / 3.6 / 1.6 - S	NiCd 3.6V 1.6AH	Side by side
ECL2 / 240 / 4.8 / 1.3 - S	NiMH 4.8V 1.3AH	Side by side
ECL2 / 240 / 4.8 / 1.6 - A	NiCd 4.8V 1.6AH	Cane
ECL2 / 240 / 4.8 / 1.6 - S	NiCd 4.8V 1.6AH	Side by side
ECL2 / 240 / 4.8 / 2.5 - A	NiCd 4.8V 2.5AH	Cane
ECL2 / 240 / 4.8 / 2.5 - S	NiCd 4.8V 2.5AH	Side by side
ECL4 / 240 / 4.8 / 4.5 - A	NiCd 4.8V 4.5AH	Cane
ECL4 / 240 / 4.8 / 4.5 - A+A	NiCd 4.8V 4.5AH	Cane + cane
ECL2 / 120-240 / 4.8 / 2.5 - A	NiCd 4.8V 2.5AH	Cane
ECL2 / 120-240 / 4.8 / 2.5 - S	NiCd 4.8V 2.5AH	Side by side

ECL - LED Range

- LED load.
- Suitable for a wide range LED load voltage range.
- Extra low standby power consumption.
- Low-profile casing (22mm x 28mm cross-section).
- Regulated charger output.
- Available for 2 hours / 3 hours.
- High Temperature, 70°C NiCd battery (NiMH available on request).



TECHNICAL SPECIFICATIONS

Model Number :	ECL-LED1	ECL-LED2
Mode of Operation :	Maintained / Non-maintained	
Lamp Type :	3 - 70V LED load	
Emergency Mode Duration :	2 Hours / 3 Hours	2 hours
Supply Voltage:	220-240 Volts, 50 - 60Hz	
Supply Current :	20mA	40mA
Power Consumption :	< 2.0W	< 4.0W
Trickle Charge :	80mA / 125mA	125mA / 225mA
Battery Charger :	Regulated variable rate	
Battery Charging Time :	< 24 Hours	
Battery Protection:	Low Battery Voltage Cut-off (Prevents Battery Over Discharge)	
Battery Type :	High Temperature Nickel-Cadmium (NiCd)	
Mains Monitor :	LED	
Test Facility:	Momentary test switch	
Casing Construction :	Electro-galvanised steel	
Max. Casing Temp, Tc :	70°C	
Max. Ambient Temp, Tc :	50°C	
Approvals Standard :	IEC 61347-2-7 (SS 490-2-7), IEC 61347-2-13, IEC 62384, SS 563	



CLASS I



PSB Singapore



Ordering Guide:

Ordering Code	Battery Type	Battery configuration
ECL-LED1 / 240 / 3.6 / 1.6 - A	NiCd 3.6V 1.6AH	Cane
ECL-LED1 / 240 / 3.6 / 1.6 - S	NiCd 3.6V 1.6AH	Side by side
ECL-LED1 / 240 / 3.6 / 2.5 - A	NiCd 3.6V 2.5AH	Cane
ECL-LED1 / 240 / 3.6 / 2.5 - S	NiCd 3.6V 2.5AH	Side by side
ECL-LED2 / 240 / 4.8 / 2.5 - A	NiCd 4.8V 2.5Ah	Cane
ECL-LED2 / 240 / 4.8 / 2.5 - S	NiCd 4.8V 2.5Ah	Side by side
ECL-LED2 / 240 / 4.8 / 4.5 - A	NiCd 4.8V 4.5Ah	Cane
ECL-LED2 / 240 / 4.8 / 4.5 - A+A	NiCd 4.8V 4.5Ah	Cane + Cane

BATTERY PACKS



Side by side
(3 x 1)



Side by side
(4 x 1)



Side by side
(2 x 2)



Cane
(1 x 3)



Cane
(1 x 4)



Side by side
(2 x 4)



Cane + cane
(1 x 2) + (1 x 2)



Battery Type	Battery configuration (Rows x No. of cells)	Total No. of Cells per pack	Cell Size	Pack Dimension (mm)
NiCd 3.6V 1.6AH	Cane (1 x 3)	3	Sub-C	130 x Ø24
NiCd 3.6V 1.6AH	Side by side (3 x 1)	3	Sub-C	70 x 47 x 24
NiCd 3.6V 2.5AH	Cane (1 x 3)	3	C	152 x Ø27
NiCd 3.6V 2.5AH	Side by side (3 x 1)	3	C	80 x 50 x 27
NiMH 4.8V 1.3AH	Side by side (2 x 2)	4	AA	105 x 30 x 16
NiCd 4.8V 1.6AH	Cane (1 x 4)	4	Sub-C	174 x Ø24
NiCd 4.8V 1.6AH	Side by side (2 x 2)	4	Sub-C	92 x 47 x 24
NiCd 4.8V 2.5AH	Cane (1 x 4)	4	C	201 x Ø27
NiCd 4.8V 2.5AH	Side by side (4 x 1)	4	C	105 x 56 x 27
NiCd 4.8V 4.5AH	Cane (1 x 4)	4	D	241 x Ø34
NiCd 4.8V 4.5AH	Cane + Cane (1 x 2) + (1 x 2)	2 + 2	D	(121 x Ø34) + (121 x Ø34)
NiCd 9.6V 1.6AH	Side by side (2 x 4)	8	Sub-C	173 x 46 x 24
NiCd 9.6V 2.5AH	Side by side (2 x 4)	8	C	201 x 54 x 27





PowerCraft
Emergency Lighting Solutions

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